

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10941 (1984): Sizes for dovetail guideways for machine tools [PGD 3: Machine Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SIZES FOR DOVETAIL GUIDEWAYS FOR MACHINE TOOLS

1. Scope — Prescribes sizes for dovetail guideways for machine tools.

2. Types

Type A — In which the contacting surfaces are the bottom and side surfaces (see Table 1).

Type B — In which the contacting surfaces are the top and side surfaces (see Table 1).

3. Terminology

3.1 Dovetail Angle (α) — Shall be 50°, 55° or 60°.

3.2 Nominal Width (w) — Defined as the width of the external guideways at the contacting surface.

3.3 Nominal Depth (h) — Defined as the depth of contact between the two sliding members.

3.4 Overall Height (h_1) — Defined as the height of the dovetail including the clearance.

3.5 Gibs — When used, shall be straight or tapered. The standard tapers shall be 1 : 50 or 1 : 100.

Note — The guideways may be without gib, with straight gib or with taper gib.

4. Sizes and Width-Depth Combination — The sizes and preferred width-depth combination shall be as given in Table 1.

EXPLANATORY NOTE

In the preparation of this standard, assistance has been derived from DIN 69052-1971 'Angular guideways' issued by the Deutsches Institut für Normung (DIN).

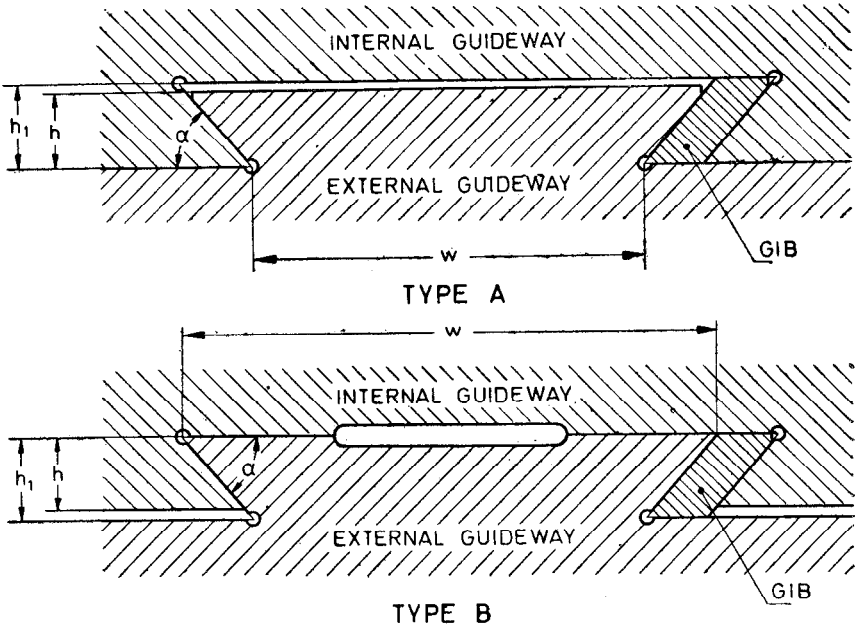
Adopted 28 June 1984

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TABLE 1 SIZES AND PREFERRED WIDTH-DEPTH COMBINATION FOR DOVETAIL GUIDEWAYS
(Clause 4)

All dimensions in millimetres.



w	h														
	5	6	8	10	12	16	20	25	32	40	50	63	80	100	
	h ₁														
	5.5	6.5	8.5	10.5	12.5	16.5	20.5	25.5	33	41	51	64	81	101	
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Note — Preferred width-combination are indicated between bold lines.